

# SC Global: The World's First Truly Global Technical Conference

## —Overview—

[www.scglobal.org](http://www.scglobal.org) (soon)  
[planners@mcs.anl.gov](mailto:planners@mcs.anl.gov)

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# SC Global Concept

SC'2001 as a trans-national, trans-cultural locus for discussion and exchange of ideas concerning advanced computation and its role in science and society



*Image compliments of: Jason Leigh, Electronic Visualization Laboratory, Univ. Illinois at Chicago, Paul Morin, University of Minnesota Department of Geology and Geophysics, University of Michigan Media Union, Peter van Keken, University of Michigan Department of Geological Sciences, Kent Kirkby, University of Minnesota Department of Geology and Geophysics*

# Realization

- Use advanced collaboration technology to link SC'2001 conference with a diverse set of constellation sites, and develop a program that exploits this distributed infrastructure to both disseminate SC'2001 content and to increase the range of ideas presented and discussed at the conference

# Advanced Collaboration Technology

- Why Access Grid technology
  - Design point similar to our requirements
  - Already in place at O(20) sites in U.S.
  - Proven ability to scale

# A Diverse Set of SC Sites: Cultural and Geographical

- International: as many as we can get
  - Australia, Brazil, Germany confirmed
  - Others will appear: iGrid, STAR-TAP, ...
- U.S.: 10-20
  - Universities in states with little SC participation
  - Centers: PACIs, Washington DC ACCESS
  - Diverse set of other universities
- Within DCC: 6
  - In meeting rooms
  - On showfloor

## A Constellation Site

- Deploys AG technology and organizes local and wide area networking
- Develops a local program that consumes and contributes to SC'2001, ideally will also be a significant local event as well
  - E.g., Australia, Germany, Brazil plan computational science workshops
  - E.g., university training/outreach event

# Disseminate SC'2001 Content

- Real-time “web-cast” selected sessions to remote sites, who can program (or not) as they like
- Recording for subsequent playback using Voyager technology, hence supporting time-shifting

# Increase Range of Ideas Presented and Discussed at SC'2001

- Panels designed to exploit distribution, e.g.
  - EPSCOR university presidents discuss implications of technology for education
  - International research leaders discuss prospects for international collaboration
- BOFs with international participation
  - E.g., Grid Forum, STAR-TAP, ...
- Invited talks from reluctant luminaries
- Workshops on international topics
- Adjunct for regular talks



# Example Constellation Site Program: Australia

Local	Denver	Activity
6am 	2pm	Panel: Intl Cooperation
7am 	3pm	Grid Forum BOF
8am 	4pm	Invited talk from Australia
9am 	5pm	Showfloor walkabout
10am 	6pm	Technical session (playback)
11am 	7pm	APAC BOF
12pm 	8pm	Keynote (playback)
1pm 	9pm	Technical session (playback)
2pm+	10pm	Local events

# Example Constellation Site Program: Germany (+8 hours)

<b>Local</b>	<b>Denver</b>	<b>Activity</b>
3pm	7am	Local events
4pm	8am	Technical session (playback)
5pm	9am	Keynote (live)
6pm	10am	Euro-US networking BOF
7pm	11am	Invited talk from Europe
8pm	12pm	Technical session (playback)
9pm	1pm	Showfloor walkabout (live)
10pm	2pm	Panel: Intl Cooperation
11pm	3pm	Grid Forum BOF (?)

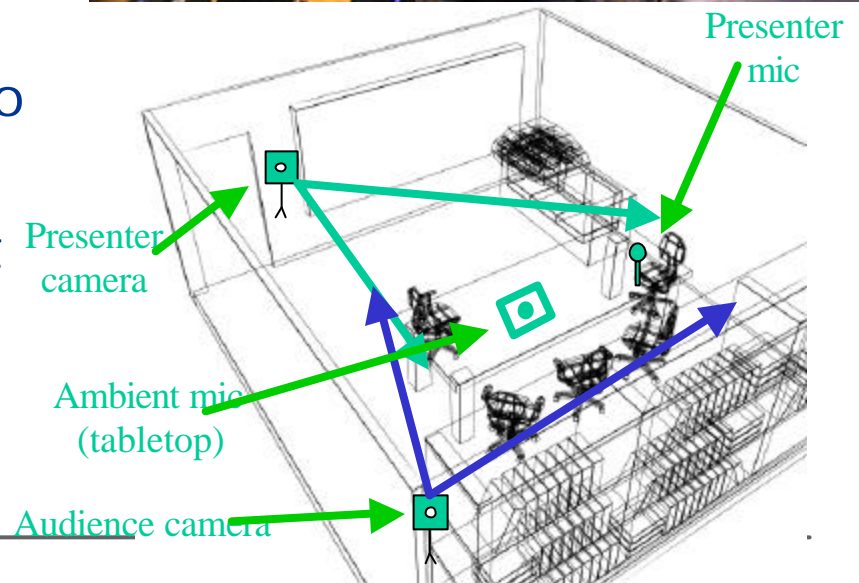
Denver (-7)	Austr. (+15)	German (+1)	Brazil (-2)	ACCESS (-5)	EPSCOR (-6)
0	14	0	5	0	1

## Example Format Showing Co-Location

3	19	11	8	5	4
4	20	12	9	6	5
5	21	13	10	7	6
6	22	14	11	8	7
7	23	15	12	9	8
8 EU-US BOF	0	16 EU-US BOF	13	10	9
9 Keynote	1	17 Keynote	14 Keynote	11 Keynote	10 Keynote
10 Panel: EPSCOR	2	18	15	12 Panel: EPSCOR	11 Panel: EPSCOR
11 Tech Session	3	19 Tech Session	16 Tech Session	13 Tech Session	12 Tech Session
12	4	20	17	14	13
13	5	21	18	15	14
14 Panel: Intl	6 Panel: Intl	22 Panel: Intl	19 Panel: Intl	16 Panel: Intl	15
15 GF BOF	7 GF BOF	23 GF BOF	20 GF BOF	17 GF BOF	16 GF BOF
16	8	0	21	18	17
17 Tech Session	9 Tech Session	1	22 Tech Session	19 Tech Session	18
18 APAN BOF	10 APAN BOF	2	23	20	19
19	11	3	0	21	20
20	12	4	1	22	21
21	13	5	2	23	22
22	14	6	3	0	23
23	15	7	4	1	24

# SC Global: How You Can Participate

- Propose multi-national and multi-site BOFs, panels, workshops
- Develop remote educational activities
- Bring unique remote content to technical talks or the showfloor
- Propose an international or U.S. Constellation Site
- Apply SC Global infrastructure to industrial programs
- Sponsor SC Global development
- Help us build and operate SC Global infrastructure!



# To Be a Constellation Site

- Access Grid node
- Network: 100 Mb/s
- Local team
  - Point of contact
  - Program coordinator
  - Network engineer

# Timetable

- February: Ideas for panels, BOFs, etc.
- March: International sites finalized
- April: Content ideas finalized
- May: Intl Access Grid Training
- June: Test Cruises begin
- Sept: Production Training Institute
- Nov: SC01 Conference

## To Do List

- Contact us if you are interested in establishing a constellation site
- Contact us if you have content ideas (however wild or mundane)
- Contact us if you want to help with technology development or operation
- Contact us if you want to sponsor the event or host a training session

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